



ECOTECH

World-class Air and Water Monitoring

WinAQMS

WinCollect

**Ecotech Air Quality Monitoring
Data Acquisition System**



ECOTECH

World-class Air and Water Monitoring

WinA-QMS

**Designed by air monitoring system people,
for air monitoring system people**

www.AmericanEcotech.com

Ambient System Components



WinCollect
Data Collection &
Reporting System

Modem &
phone lines



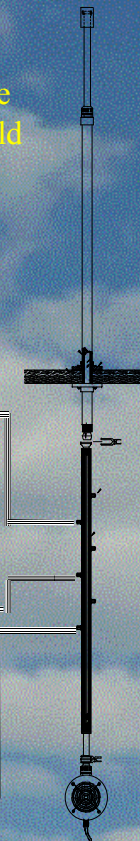
Data Acquisition
System

Calibration
System



Analysers

Sample
Manifold



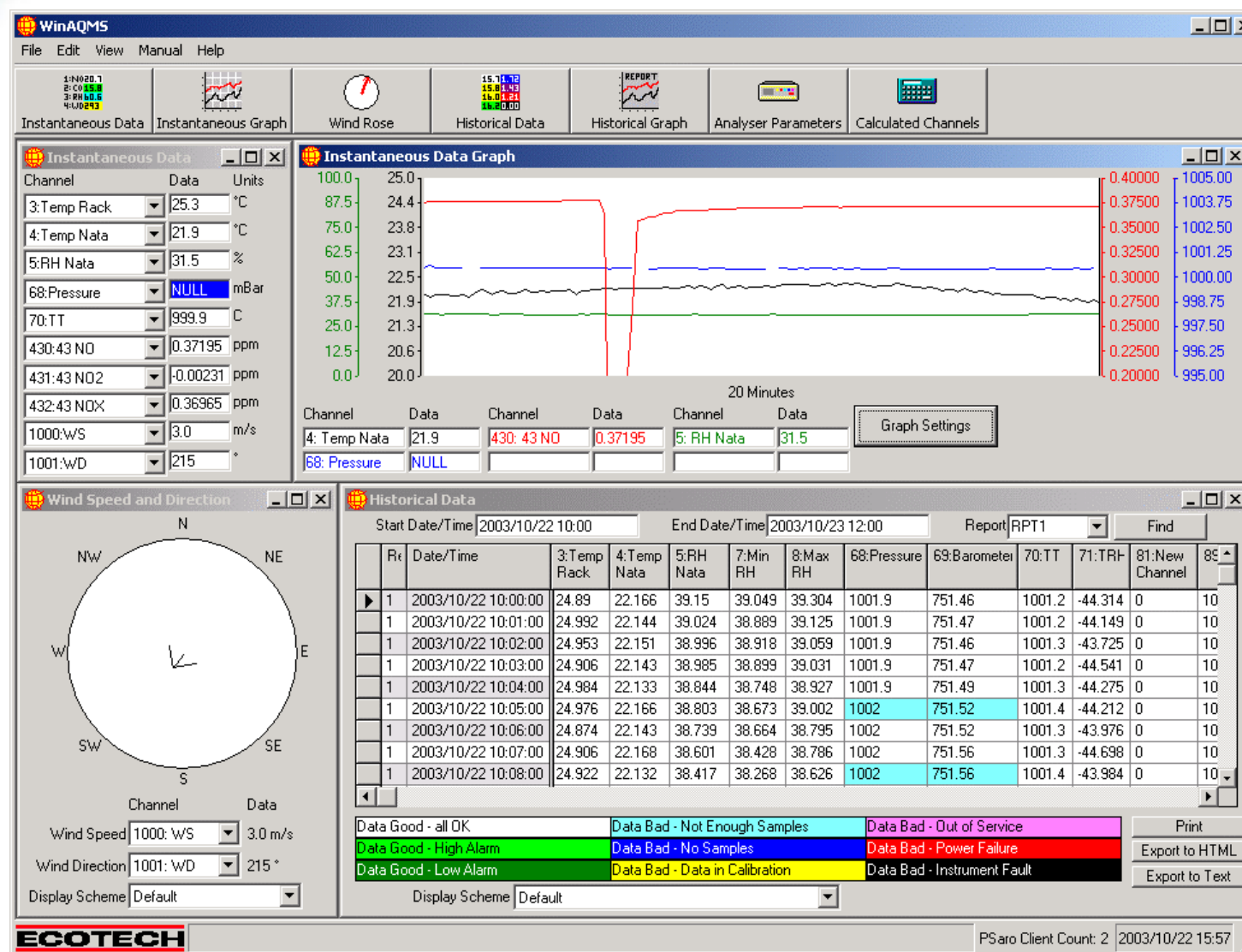
WinAQMS Datalogger "Server" = hardware + datalogging



WinAQMS Datalogger “Server” = hardware & datalogging

- Dedicated server, specifically configured solely for ambient air monitoring station use
- Windows XP PRO operating platform is pre-installed on the WinAQMS Server at the Ecotech factory
- Handles all communication between the logger and instruments, via USB, RS-232, ethernet, or analog comms.
- Supports direct digital communication from many manufacturers instrumentation
- Easily capable of storing 30 years worth of data
- Remote communication via: RS232 (PSTN, Radio etc), TCP/IP (wireless or cable network), broadband, GSM, or telephone system dial-up.

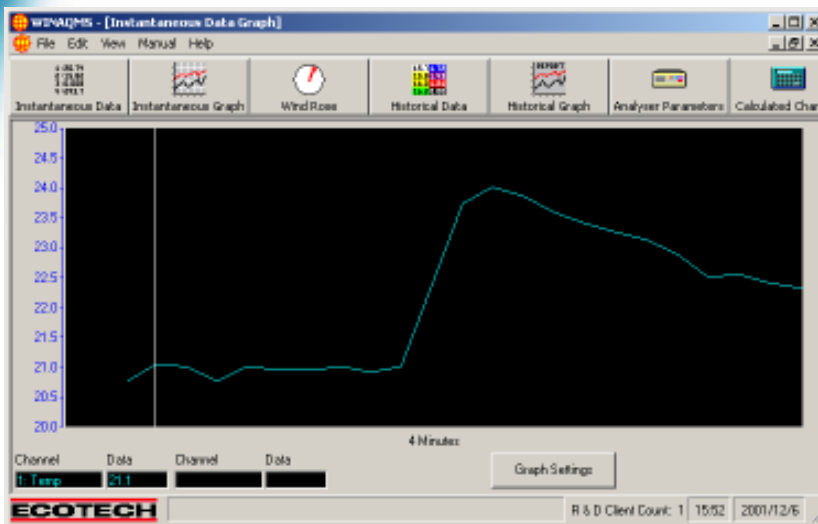
WinAQMS Datalogger "Client" = Datalogger GUI for site maintenance



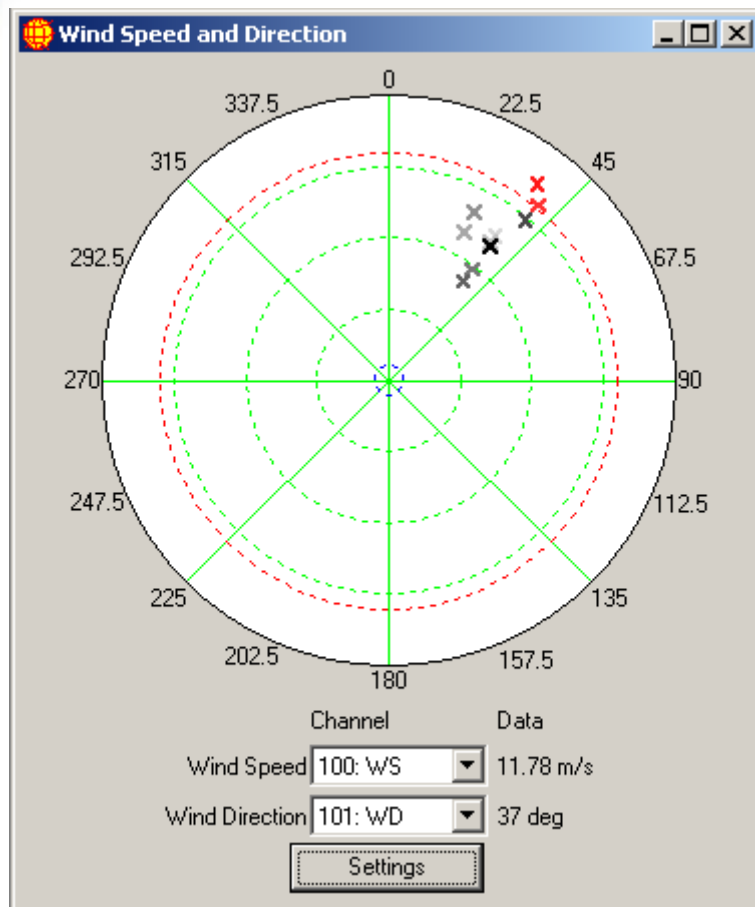
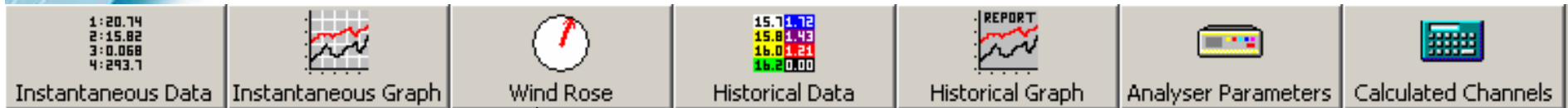
WinAQMS Datalogger “Client” = GUI for site maintenance

- “Client is the graphic user interface of the WinAQMS datalogger
- Displays instantaneous and historical data in graphical and list-report type formats
- Included as part of the cost of WinAQMS datalogger
- Provides user-friendly access to settings and data
- Communicates with “WinAQMS Server” to retrieve information
- Server keeps collecting data, even if Client GUI “crashes”.
- “Remote” Client – enables one (or more) site technicians to perform remote diagnostics and maintenance
- One Remote WinAQMS Client may interrogate multiple WinAQMS dataloggers

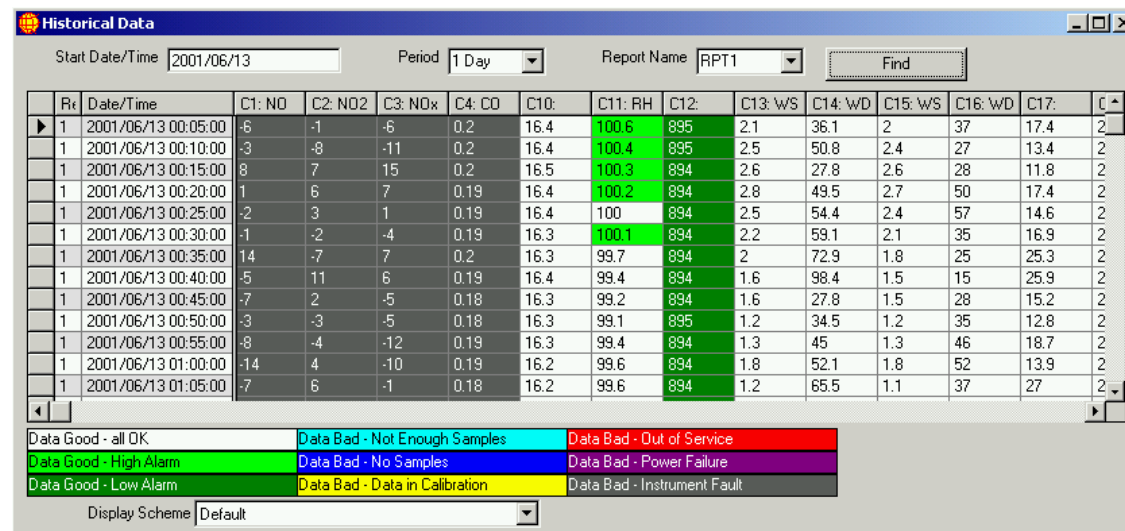
Instantaneous Graph



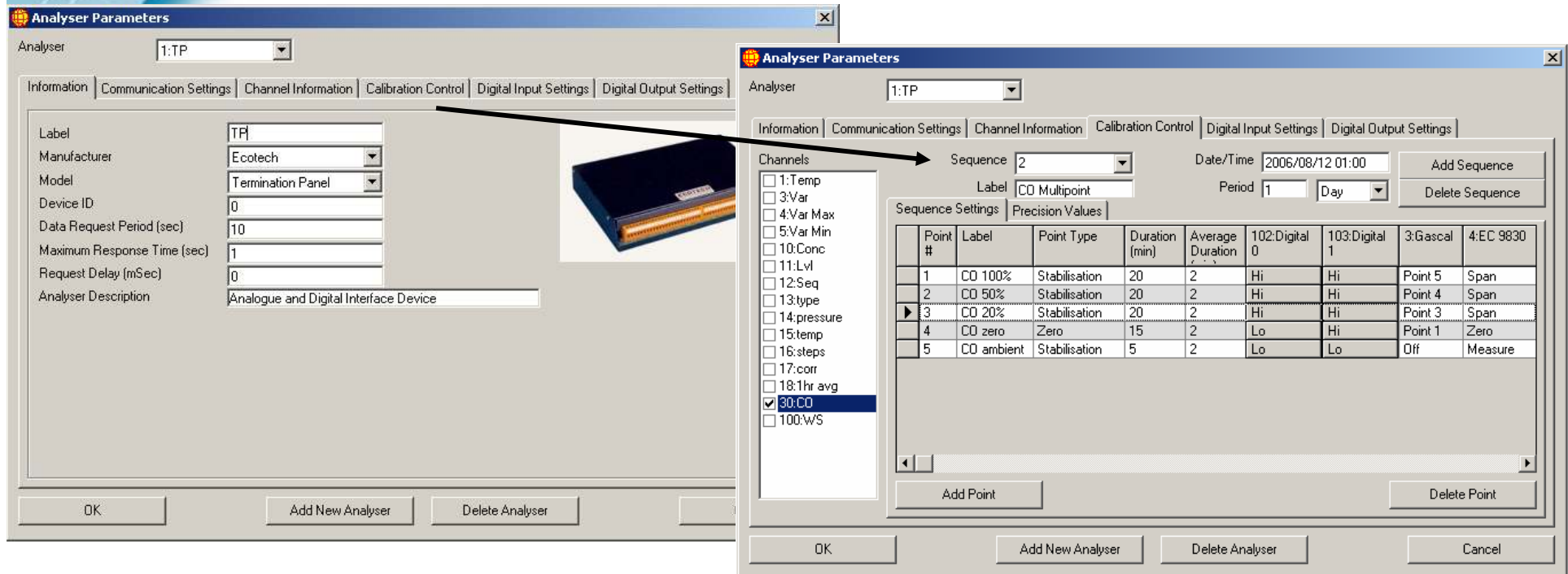
- Plots instantaneous data over a user specified time period
- Ideal for the monitoring of current air quality trends
- Plot colours automatically change to indicate air quality exceedances
- Useful for viewing manual calibration sequences
- 6 data plots simultaneously
- All graph settings are user configurable



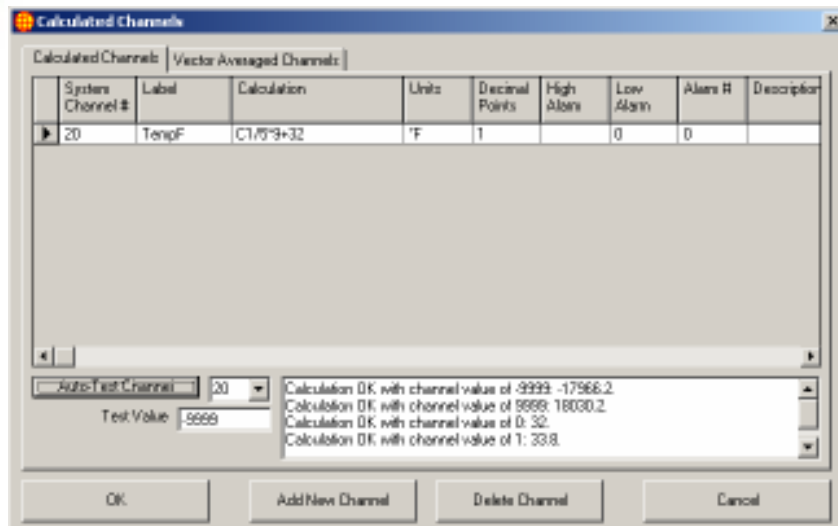
- View current wind conditions at a glance.
- Multiple ways of viewing data readings including variable data history size, fading data and data colour changing for alarm values.



- Displays historical data from the database for a user selectable period
- Data automatically highlighted to represent certain "status conditions"
- Report can be one of RPT1, RPT2, RPT3, RPT4, Span, Zero, Precision or all reports



- Multipoint calibrations can be configured using a sequences made from a number of span points.
- Sequences can be set to run for multiple channels
- Point duration can be varied
- Analyzer state (span, zero etc) and digital outputs can be set for each point in a sequence
- Precision values for each channel can be set

Calculated Channels: Vector Averaged Channels

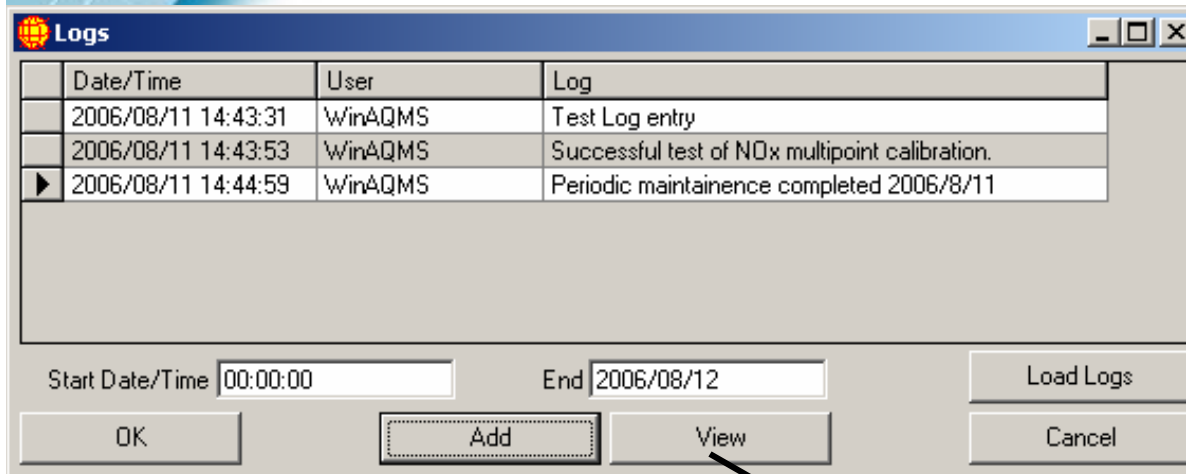
System Channel #	Label	Calculation	Units	Decimal Points	High Alarm	Low Alarm	Alarm #	Description
20	TempF	C1/5*9+32	'F	1		0	0	

Auto-Test Channel: 20
Test Value: -9999

Calculation OK with channel value of -9999: -17966.2
Calculation OK with channel value of 9999: 18030.2
Calculation OK with channel value of 0: 32
Calculation OK with channel value of 1: 33.8

OK Add New Channel Delete Channel Cancel

- Provides for creation of new channels to perform complex scalar calculations
- Supports vector averaged channels used to calculate Sigma Theta and other vector averages
- Also supports rolling averages
- Features an auto test function to ensure formula is correct

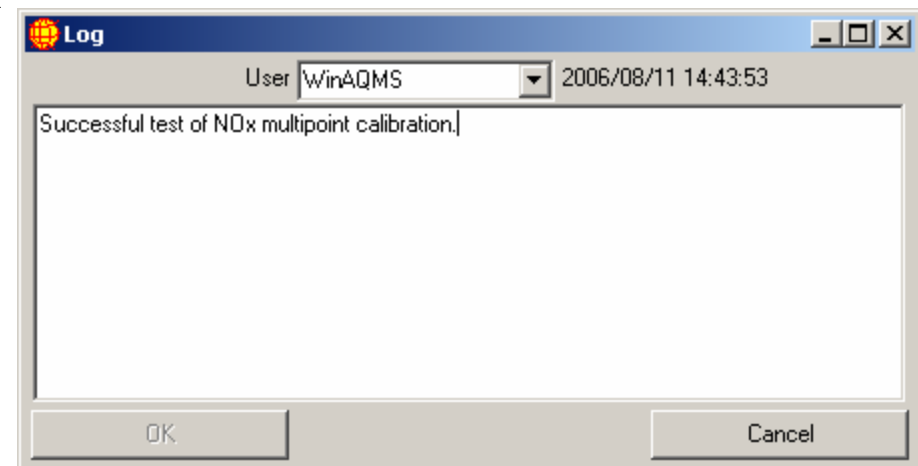


	Date/Time	User	Log
	2006/08/11 14:43:31	WinAQMS	Test Log entry
	2006/08/11 14:43:53	WinAQMS	Successful test of NOx multipoint calibration.
▶	2006/08/11 14:44:59	WinAQMS	Periodic maintenance completed 2006/8/11

Start Date/Time: 00:00:00 End: 2006/08/12

Buttons: OK, Add, View, Load Logs, Cancel

- Allows important information to be recorded by site operators.
- Logs can be retrieved remotely.

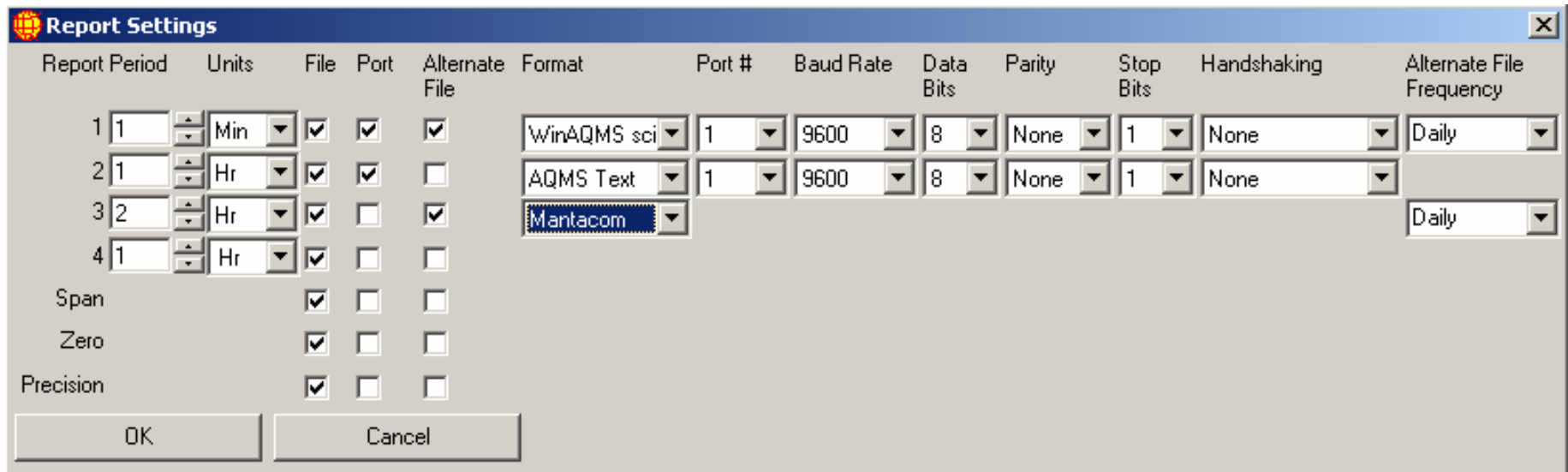


User: WinAQMS 2006/08/11 14:43:53

Successful test of NOx multipoint calibration.

Buttons: OK, Cancel

- Data stored in ASCII text format
- A new data file is automatically created each day
- Up to 4 separate data report types with individually configured averaging periods plus Span, Zero and Precision Reports
- Data can also be output to Serial port or stored in alternative data file formats.



The 'Report Settings' dialog box is shown, featuring a table for configuring four report types and three additional report options (Span, Zero, Precision). The table columns include Report Period, Units, File, Port, Alternate File, Format, Port #, Baud Rate, Data Bits, Parity, Stop Bits, Handshaking, and Alternate File Frequency.

Report Period	Units	File	Port	Alternate File	Format	Port #	Baud Rate	Data Bits	Parity	Stop Bits	Handshaking	Alternate File Frequency
1	1 Min	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WinAQMS sci	1	9600	8	None	1	None	Daily
2	1 Hr	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AQMS Text	1	9600	8	None	1	None	
3	2 Hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mantacom							Daily
4	1 Hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Span		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Zero		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Precision		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								

Buttons: OK, Cancel



- Supports direct communication with analyzers which have ANSI terminal mode e.g. EC9800
- Enables the operator to remotely view the analyzers' configuration, status and all other information which is available through the analyzers front display
- Provides an extremely powerful station diagnostic tool

Direct Communication with GasCal

Communicate with Analyser

Analyser
Number, Label, Type, ID, Port
8: Gascal - Ecotech GasCal 1000, 0, 3

Connect Disconnect ☒ GUI Save Settings Load Settings

Points Gases Alarms Factory Settings

Point	Gas Number	Flow	Concentration	O3 Concentration	Units
1	1	3000	0	0	ppm
2	1	3000	0.4	0	ppm
3	1	3000	0.1	0	ppm
4	0	4	0	0	ppm
5	0	5	0	0	ppm
6	0	6	0	0	ppm
7	0	7	0	0	ppm
8	0	8	0	0	ppm
9	0	9	0	0	ppm
10	0	10	0	0	ppm
11	0	11	0	0	ppm
12	0	12	0	0	ppm
13	0	13	0	0	ppm
14	0	14	0	0	ppm
15	0	15	0	0	ppm
16	0	16	0	0	ppm
17	0	17	0	0	ppm
18	0	18	0	0	ppm
19	0	19	0	0	ppm
20	0	20	0	0	ppm

Input Mask

	1	2	3	4	5	6	7	8
1	0	1	1	1	X	X	X	X
2	0	1	1	1	X	X	X	X
3	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X

Output Mask

	1	2	3	4	5	6	7	8
1	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X

Points Gases Alarms Factory Settings

Zero Correction Factor Air 0.998

Gas	Label	Concentration	Units	Gas Correction Factor		Port
1	NO	99.14	ppm	Nitrogen-N2	1.000	1
2	CO	9956	ppm	Nitrogen-N2	1.000	1
3	SO2	94.98	ppm	Nitrogen-N2	1.000	1
4	GAS4	0	ppm	Nitrogen-N2	1.000	1
5	GAS5	0	ppm	Nitrogen-N2	1.000	2
6	GAS6	0	ppm	Nitrogen-N2	1.000	3
7	GAS7	0	ppm	Nitrogen-N2	1.000	1
8	GAS8	0	ppm	Nitrogen-N2	1.000	2
9	GAS9	0	ppm	Nitrogen-N2	1.000	3
10	GAS1XX	100	ppm	Nitrogen-N2	1.000	1

Points Gases Alarms Factory Settings

Mass Flow Controller/Generator Coefficients

Item	Coefficient 1	Coefficient 2	Coefficient 3
Zero Air MFC	-5.676	1989.978	2.16
Ozone MFC	-0.44	18.918	0.142
Span Gas 1 MFC	0.062	20.352	-0.038
Span Gas 2 MFC	0	0	0
Ozone Generator	-13.775	10.642	1.661

O3 Maximum Voltage 3.8

O3 Minimum Voltage 1.2

Purge Time (sec) 0

2nd MFC Flag 0

Points Gases Alarms Factory Settings

Alarm

	1	2	3	4	5	6	7	8
Low Flow	X	X	X	X	X	X	X	X
Over Range	X	X	X	X	X	X	X	X
Under Range	X	X	X	X	X	X	X	X

- WinAQMS now enables direct communication and configuration of the GasCal

Alarms

Report: **Instantaneous**

Email To Send For Alarm:

To: b1@b2.com

From: WinAQMS

Subject: CO2 alarm

Attached: C:\alarm.doc

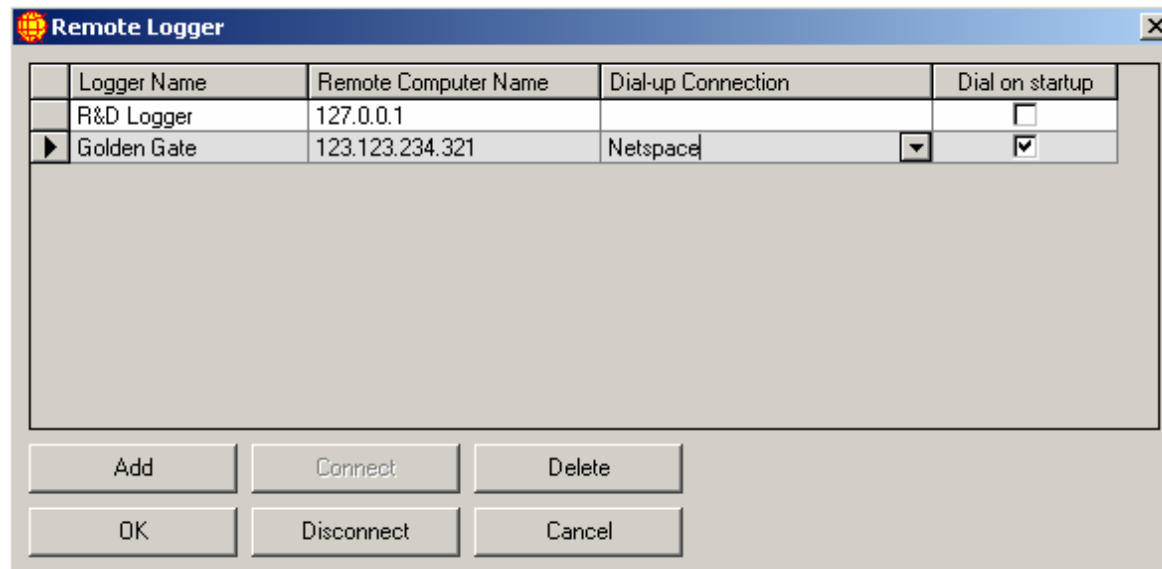
Too much CO2

OK Cancel

OK Add Delete Cancel

- May be configured to automatically send out alarm based emails.
- Can now also automatically dial up the site maintenance person in his/her office and display an on-screen alarm!

- WinAQMS Client provides for remote access to a WinAQMS Server
- Select from a list of remote loggers to connect to.
- Enables a single operator to oversee multiple loggers from a remote location.





ECOTECH

World-class Air and Water Monitoring

WinAQMS

**Designed by air monitoring system
maintenance operators, for air monitoring
system maintenance operators**

Ecotech WinCollect

Data Evaluation & Reporting Software



Enables full remote control, data collection and generation of reports from the monitoring stations.

Requires:

- Central Windows Based PC
- WinCollect Software
- Modem or other comm

to loggers ...can connect to

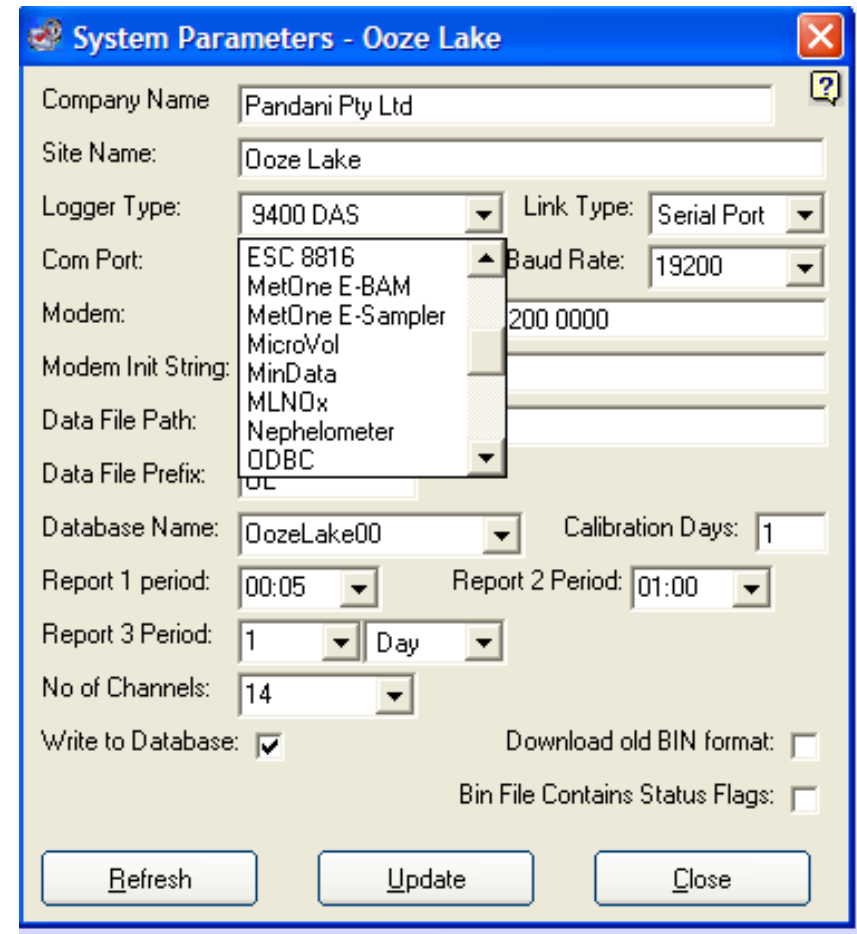
Ecotech WinAQMS, ESC, Campbell, Zeno, and also

connects directly to any stand alone TEOM, BAM, nephelometer, Ecotech MicroVol, Ecotech HiVol, etc



- Single User Version – install on any Windows based workstation or laptop and connect to one or many air monitoring stations
- Multiuser Version – utilizes SQL Database, enables multiple WinCollect end-users to work at same time

- Able to import data from a variety of Data Acquisition Systems
 - WinAQMS
 - EC9800s, M9003, MicroVol, HVS3000
 - Ecotech 9400
 - Met One E-BAM, BAM1020
 - TEOM 1400AB
 - Thermo 5400/8400N/S, Dustscan
 - Datalogger
 - Opsis 600 Analyser
 - ESC loggers
- Manual import of files downloaded from:
 - Unidata loggers & Starloggers



System Parameters - Ooze Lake

Company Name: Pandani Pty Ltd

Site Name: Ooze Lake

Logger Type: 9400 DAS Link Type: Serial Port

Com Port: ESC 8816 Baud Rate: 19200

Modem: MetOne E-BAM

Modem Init String: MetOne E-Sampler

Data File Path: MicroVol

Data File Prefix: MinData

Database Name: OozeLake00 Calibration Days: 1

Report 1 period: 00:05 Report 2 Period: 01:00

Report 3 Period: 1 Day

No of Channels: 14

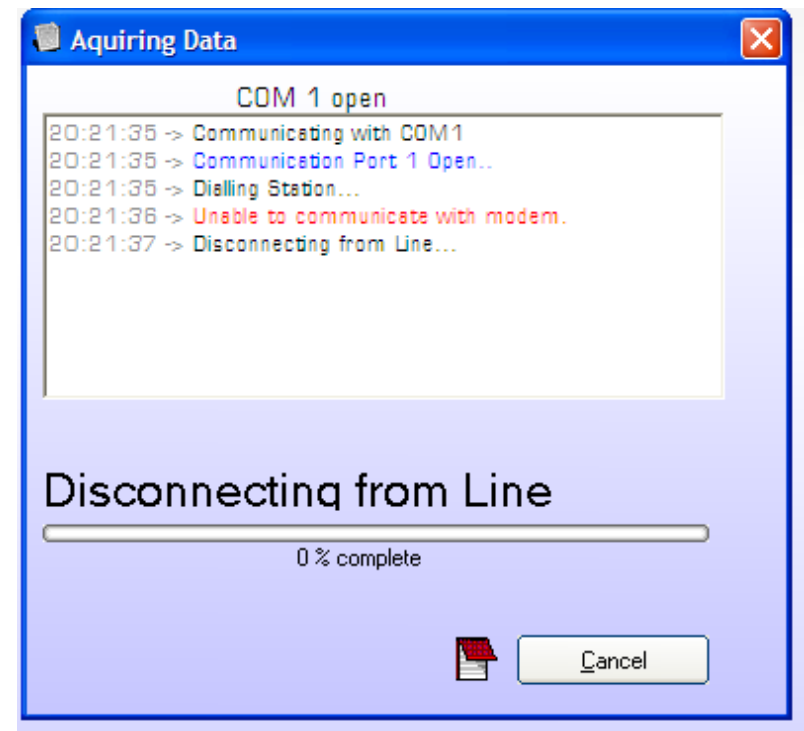
Write to Database: ☒ Download old BIN format: ☐

Bin File Contains Status Flags: ☐

Buttons: Refresh, Update, Close

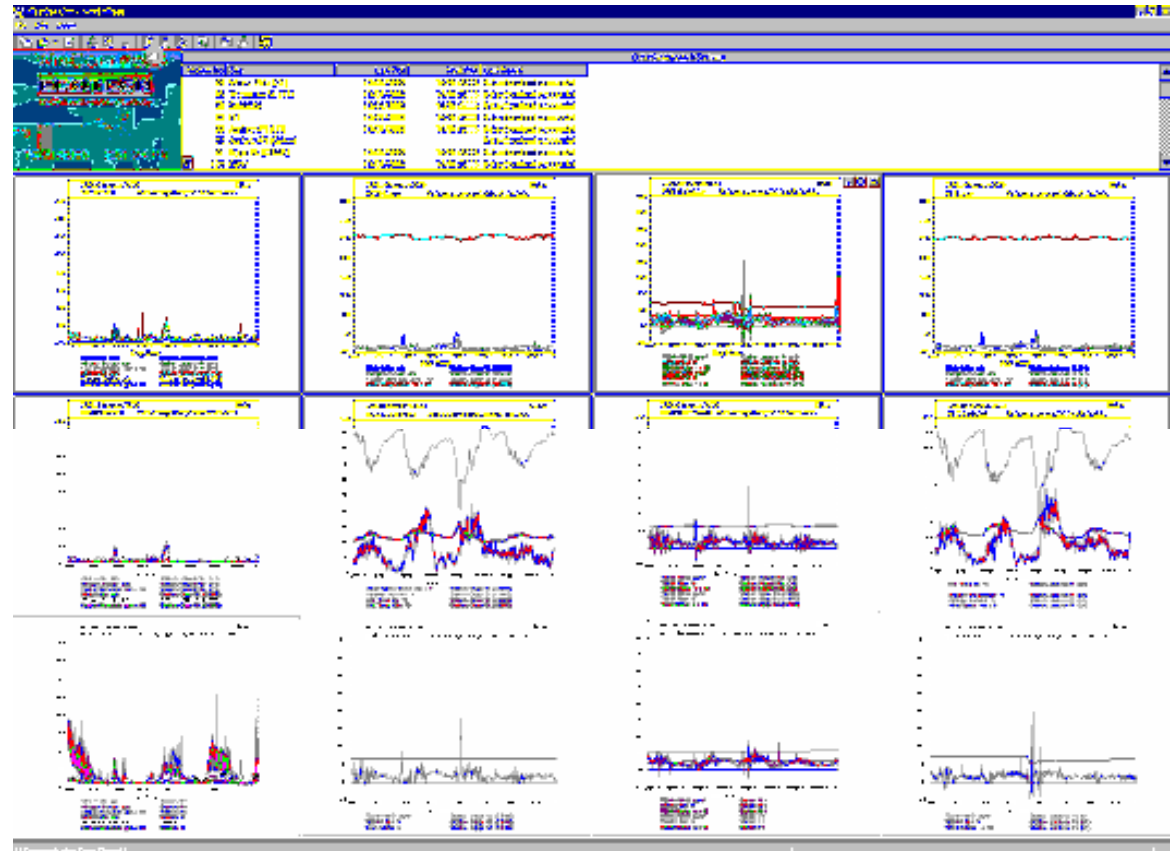
WinCollect communicates through any of the following media

- PSTN phone lines
- ISDN phone lines
- GSM/CDMA
- Radio Modem
- Satellite
- TCP/IP network
- Dial-up network
- File Import - - file downloaded using “other” software and then can be manually or automatically imported
- Communication diagnostic screen



Dial-up a TCP/IP network of WinAQMS effectively giving access to all loggers through one modem & phone line

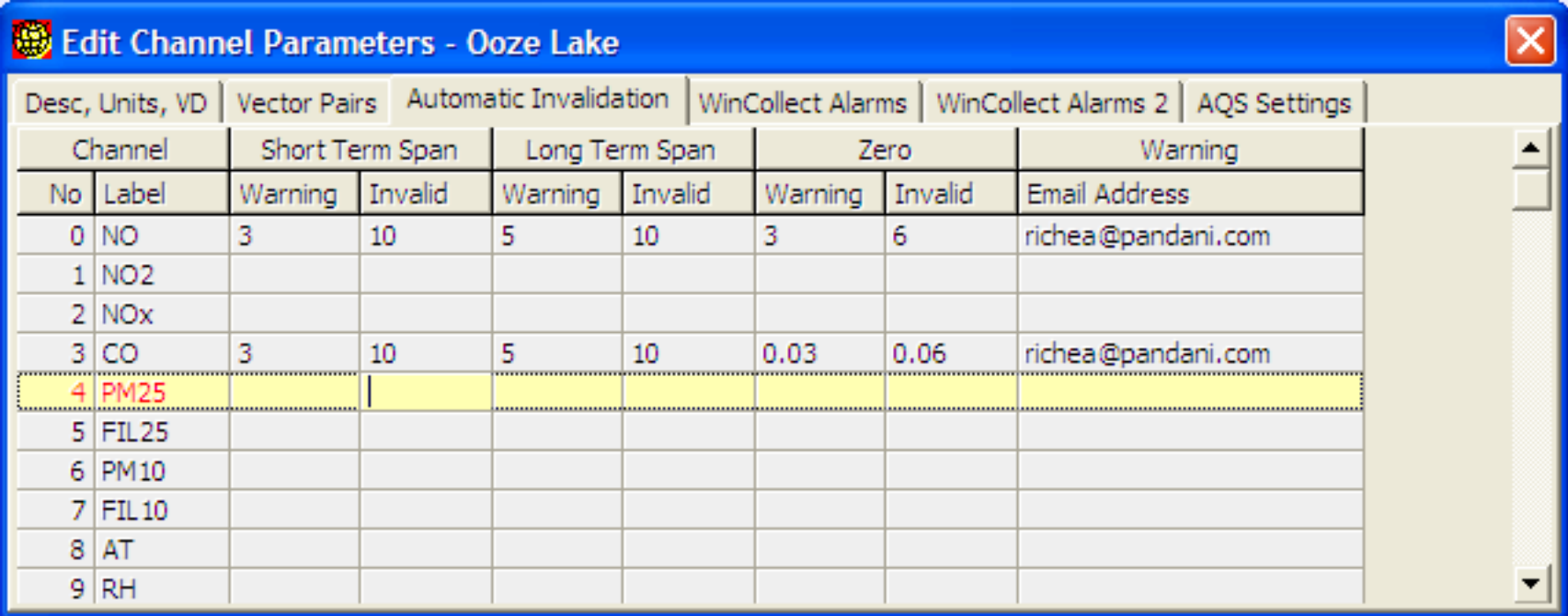
- No need for modems to be connected to each loggers
- Possible to monitor multiple systems through the one phone call



Direct TCP/IP access to most supported loggers and analyzers.

Possible to view data from multiple systems simultaneously on the one WinCollect screen

- Data may be automatically marked invalid based on:
 - Out of tolerance concentration average
 - Out of tolerance rolling average
 - Out of tolerance span/zero calibration



Edit Channel Parameters - Ooze Lake

Desc, Units, VD		Vector Pairs		Automatic Invalidation		WinCollect Alarms		WinCollect Alarms 2	AQS Settings
Channel		Short Term Span		Long Term Span		Zero		Warning	
No	Label	Warning	Invalid	Warning	Invalid	Warning	Invalid	Email Address	
0	NO	3	10	5	10	3	6	richea@pandani.com	
1	NO2								
2	NOx								
3	CO	3	10	5	10	0.03	0.06	richea@pandani.com	
4	PM25								
5	FIL25								
6	PM10								
7	FIL10								
8	AT								
9	RH								



WinCollect
ECOTECH
World-class Air & Water Monitoring

v3.2

Edit Channel Parameters - CCT CEM

Desc, Units, VD	Vector Pairs	Automatic Invalidation	WinCollect Alarms	WinCollect Alarms 2	AQS Settings	
CH No	CH Label	Dec Pts	Units	VD Low	VDHigh	Description
0	NO	2	ppm	-10	1000	Nitrogen Oxide
1	NO2	2	ppm	-10	1000	Nitrogen Dioxide
2	NOx	2	ppm	-10	1000	Oxides of Nitrogen
3	CO	2	ppm	-0.1	100	Carbon Monoxide
4	PM2.5	1	µg/m³	-50	5000	Particulate 2.5µm
5	Filter25	0	%	-1	100	Filter 2.5µm
6	StackTP	1	°C	0	500	Stack Temperature
7	StackRH	1	%	0	150	Stack Humidity
8	StackPr	2	atm			Stack Pressure
9	StackVe	1	m/s	0	500	Stack Velocity
10	H2Con					Hydrogen Leak Check
11	5V_ref		V	2.5	7.5	5V Reference
12	0V_ref		V	-2.5	2.5	0V Reference
13	9800Span					9800Span
14	9800Zero					9800Zero
15	Status2					Teom 2.5 Status
16	At_Teom	1	°C	0	500	AT Teom
17	Bp_Teom	1				BP Teom
18	Blowback					Blowback Status
19	RackTemp	1	°C	1	50	Rack Temperature
20	MainFlow					MainFlow
21	Aux_Flow					Aux_Flow
22	Mode2.5					PM2.5 Mode
23	HCSpan					DG Control H2 Span
24	HCZero					DG Control H2 Zero
25	Blowbac2					Blowback Status
26	Cal_6					Cal6
27	Cal_7					Cal7
28	Cal_8					Cal8
29	PM10	1	µg/m³	-50	5000	Particulate 10µm
30	Filter1	0	%	-1	100	Filter 10µm
31	Status1					Teom 10 Status
32	At-teom2	1	°C			AT-Teom2.5

Friday, 14:58:10

Invalid data is marked and highlighted in the database making it easy to locate.

Any manual changes made to data in the database requires the operator to enter a reason for the change.

Edit Database - Vic Roads- Beckett

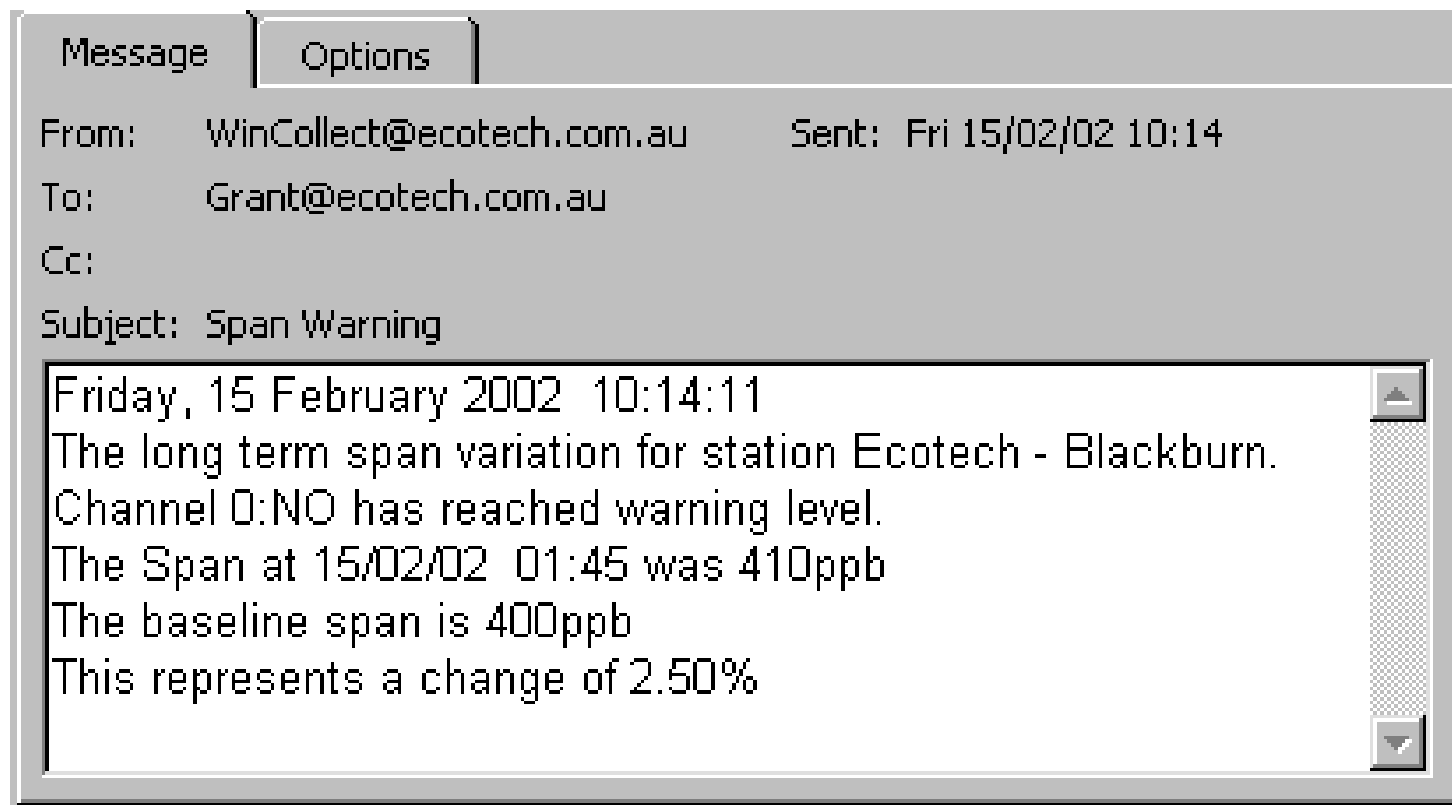
Database Name: m3 Start Date/Time: 2/2/2 Report Type: RPT1 Find

Period: 2 Days End Audit Entry

Report	Date/Time	WS	WD	SIG	ATE	RH	BAT
0	2/02/02 06:15:00	1.5	193.		17.0	100.	12.3
0	2/02/02 06:18:00	1.4	227.		17.0	100.	12.3
0	2/02/02 06:21:00	1.9	230.		16.9	100.	12.3
0	2/02/02 06:24:00	1.3	226.		16.9	100.	12.3
0	2/02/02 06:27:00	1.1	257.		16.9	100.	12.3
0	2/02/02 06:30:00	1.8	243.		16.9	100.	12.3
0	2/02/02 06:33:00	7.7255	177.		16.9	100.	12.3
0	2/02/02 06:36:00	14.4	100.		16.9	100.	12.3
0	2/02/02 06:39:00	1.4	228.		17.0	100.	12.3
0	2/02/02 06:42:00	2.1	216.		17.0	100.	12.3
0	2/02/02 06:45:00	1.8	234.		17.0	100.	12.3
0	2/02/02 06:48:00	1.8	237.		17.0	100.	12.3
0	2/02/02 06:51:00	2.1	247.		17.0	100.	12.3
0	2/02/02 06:54:00	1.4	246.		17.0	100.	12.3
0	2/02/02 06:57:00	1.4	240.		17.0	100.	12.3

Current Status: Bad Not Edited Original Data Status: Good

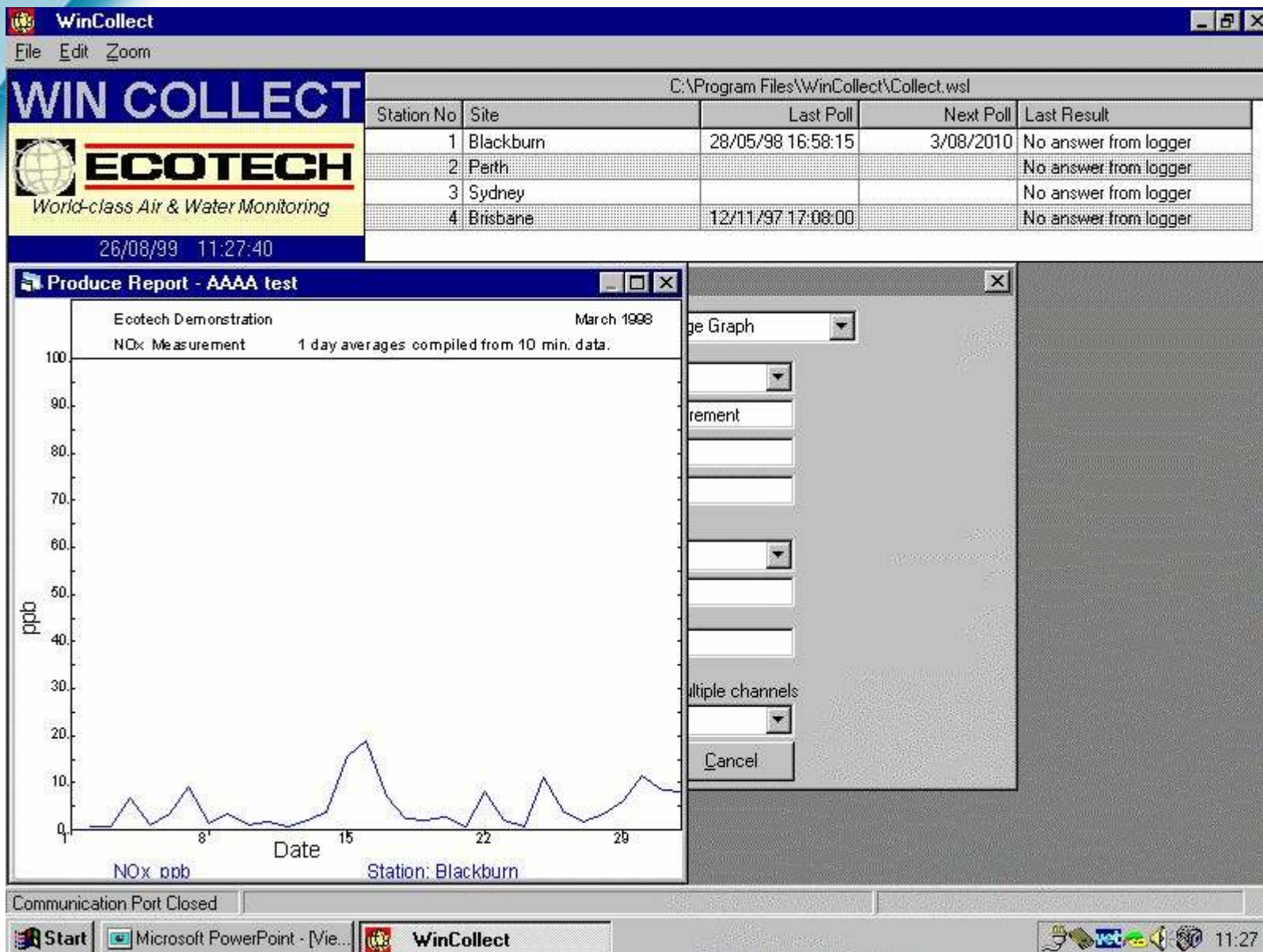
In the event that data downloaded is invalid an automatic email can be sent to any number of email addresses.



- Data can be automatically downloaded and reports generated automatically
- Reports can be sent to printer, screen, file, email, serial port.

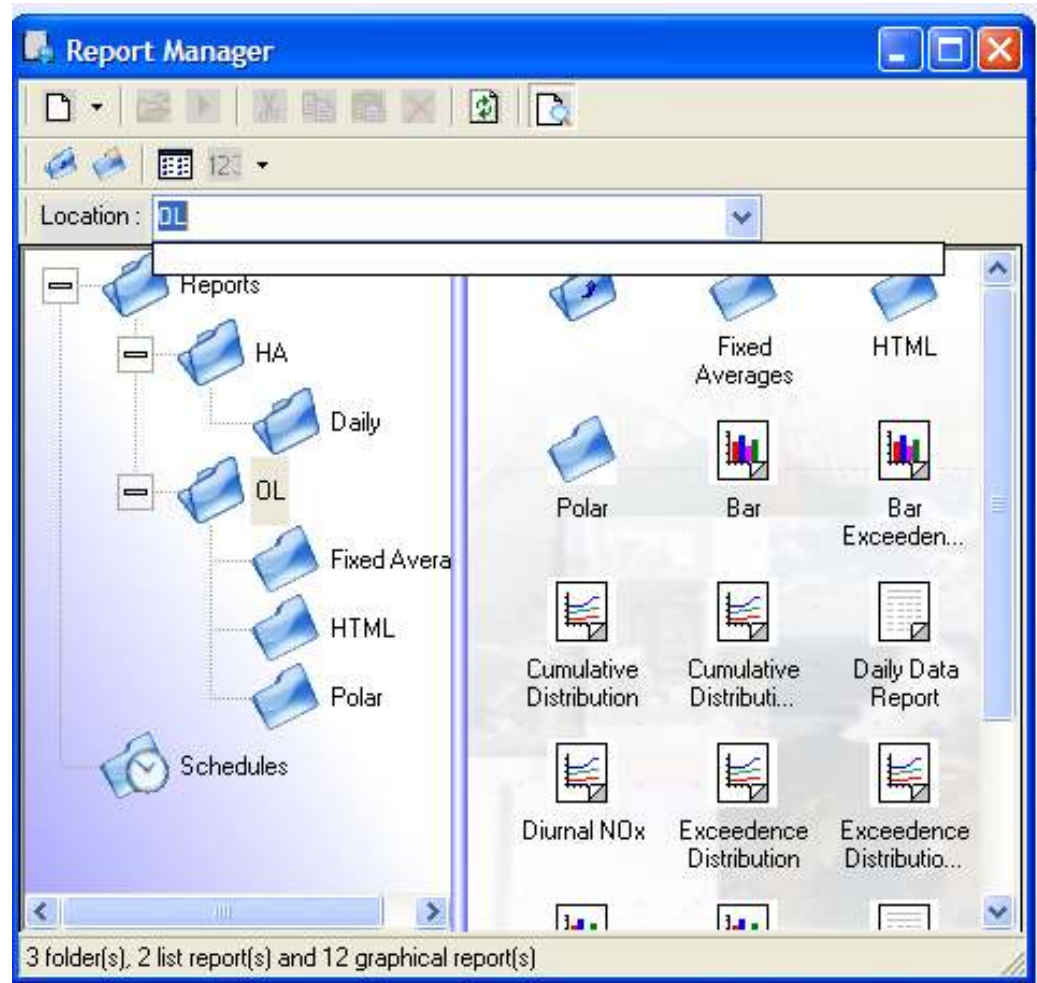
Automatic Reporting Schedule

Report		Date/Time Configuration			Increment		Destination	
Name	Type	Execute	Start	End	Period	Unit	Type	Details
OL-Fixed Averages-New Graphical Report	Fixed Average Graph							
OL-Fixed Averages-NOx	Fixed Average Graph							
OL-Fixed Averages-Rack Temp	Fixed Average Graph		1/09/2006 07:00:00 AM	1/09/2006 11:00:00 PM	3	Minute	Email	ShelterHelp@Pandani.com
OL-Fixed Averages-Temp	Fixed Average Graph		1/09/2006 07:00:00 AM	1/09/2006 11:00:00 PM	1	Hour	Printer	
OL-Frequency Distribution	Frequency Distribution		1/09/2006 07:00:00 AM	1/09/2006 11:00:00 PM	3	Minute	Screen	
OL-Frequency Distribution (Log)	Frequency Dist. (Log Scale)							
OL-HTML-Recent Ambient	List Report							
OL-HTML-Recent Met	List Report							
OL-Monthly Summary	List Report							
OL-Polar-Concentration	Polar Plot (Concentration)							
OL-Polar-Dose	Polar Plot (Dose)							
OL-Polar-Scattered	Polar Plot (Scattered)							



Management of reports now inherits greater power, flexibility, and efficiency with the introduction of a report management interface:

- *Browse and identify report types and schedules easily*
- *Preview a reports last generated output*
- *Structure your report development*



Data Reporting Setup

Report Specification

Report Name: R&D-Pollution Index Report Format: Pollution Index

Station No.: 6 : R&D WinAQMS Report Type: RPT2

Channel: 1 : Temp Report Heading: Pollution Index at Blackbu

Start Date/Time: 1/02/02 End Date/Time: 15/02/02

Time Format: ddd dd/mm/yy to Averaging Period: 0:01:00

Percentile: 75 Parameter (Average, Max, GM): Average

Breakpoint 1: 34 Breakpoint 6: 0 Minimum Value: 0

Breakpoint 2: 67 Breakpoint 7: 0 Maximum Value: 200

Breakpoint 3: 100 Breakpoint 8: 0 Minimum Data %: 75

Breakpoint 4: 150 Breakpoint 9: 0 Alternative Units:

Breakpoint 5: 0 Breakpoint 10: 0

Stations:

- ☐ 1 : PAC MELBOURNE
- ☐ 2 : Transurban - Grant St.
- ☐ 3 : Transurban - Madden Gr
- ☐ 4 : ACI Glass
- ☐ 5 : Domain Stack - Opsis
- ☒ 6 : R&D WinAQMS

Channels:

- ☐ 11 : WD
- ☐ 12 : Sigma
- ☐ 13 : RTemp
- ☒ CC 1 : PI_SO2
- ☒ CC 2 : PI_NO2
- ☒ CC 3 : PI_CO

Scale: 1.

Buttons: Produce Report, Set Level Markers, Set Colours, Save, Ok, Cancel

Set Graph Colours

Trace:

- <34 Very Good
- <67 Good
- <100 Fair
- <150 Poor
- >=150 Very Poor

Buttons: Ok, Cancel

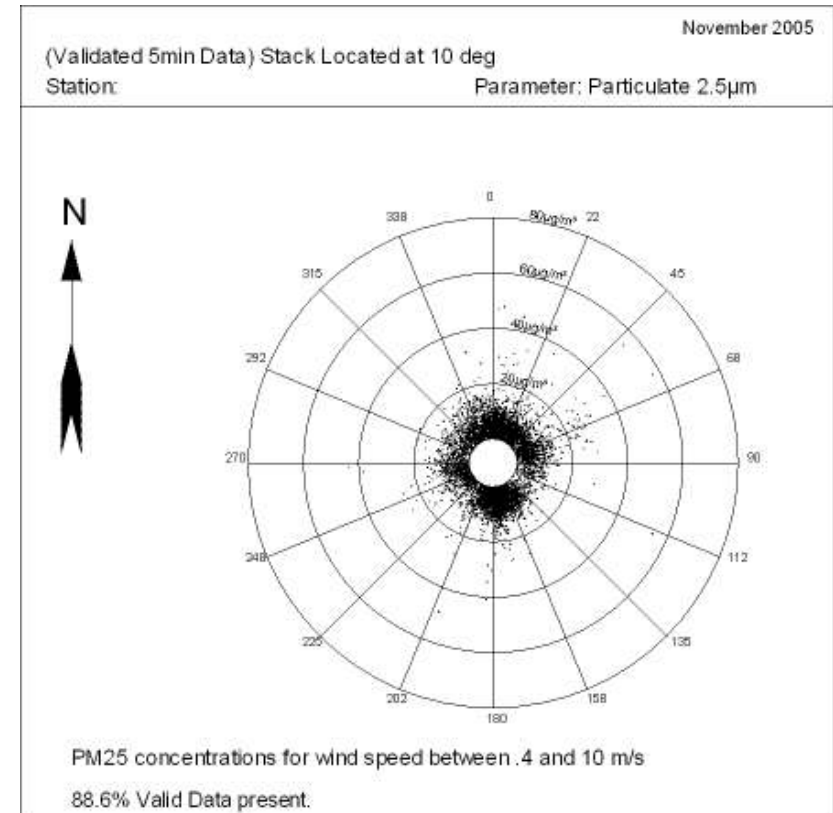
Reports are generated in the standard Windows Metafile format enabling them to be copied directly to other Windows applications and printed on any printer supported by Windows 2000/XP

Support for JPG, PCX, BMP, TGA and TIF graphic formats is also available for automatically generated reports

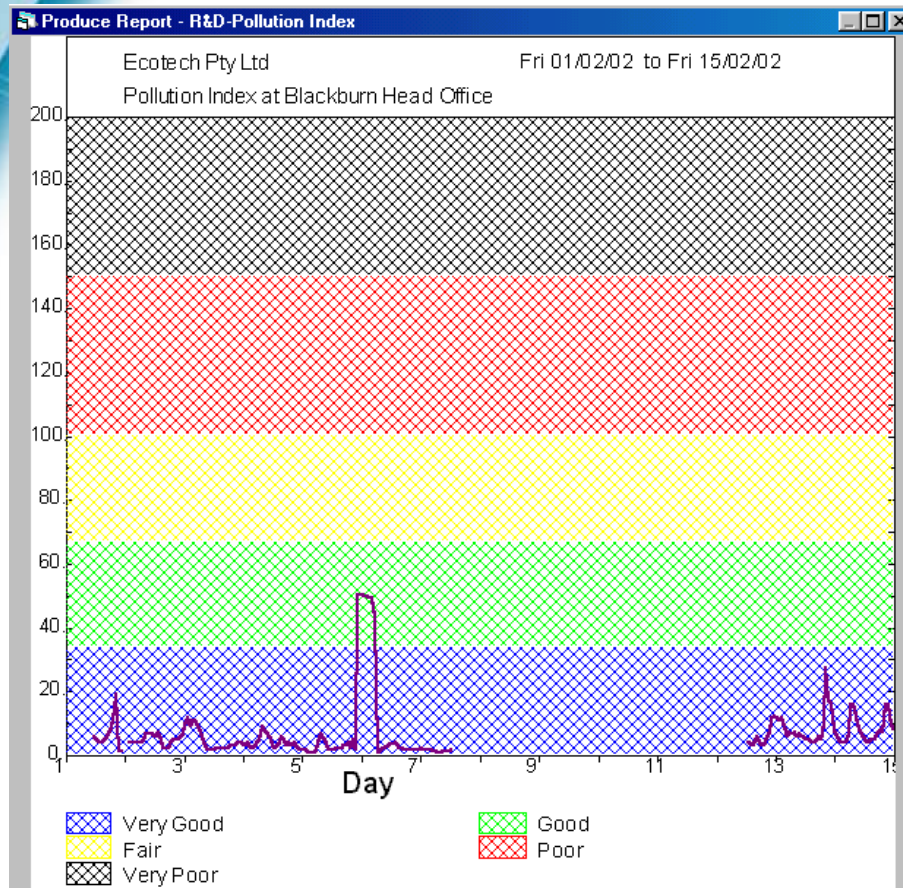
By dynamically saving reports in JPG format to a WWW server's network drive, the latest data can be made available in real-time (immediately following validation) via the internet.

Graphs & Reports supported include:

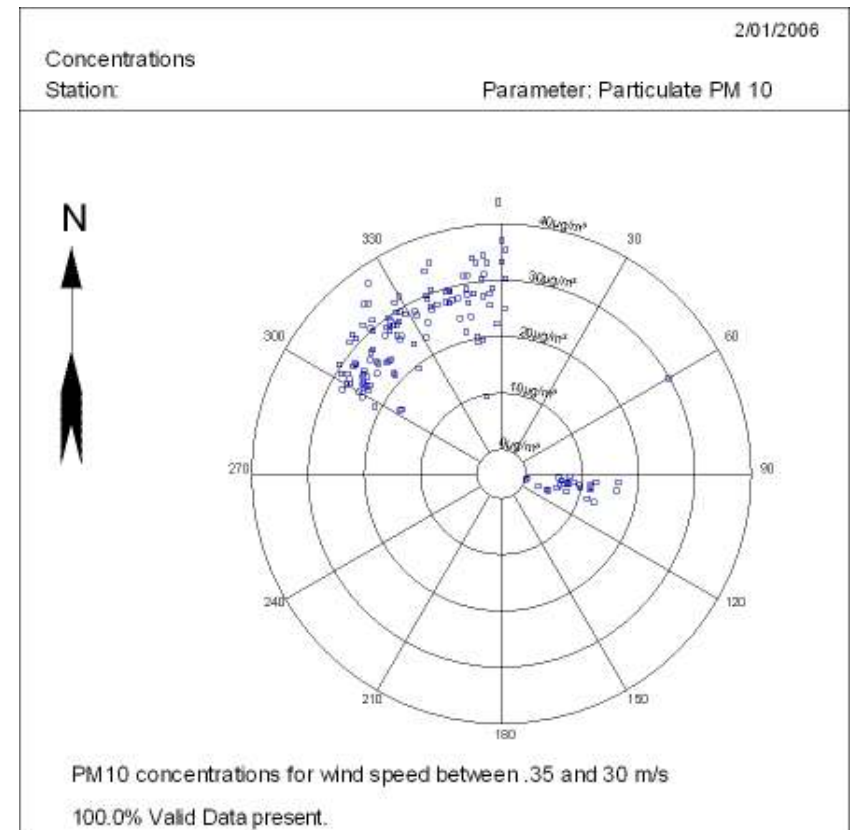
- Line, Bar Graphs of:
 - Average
 - Maximum/Minimum
 - Standard Deviations
 - Rolling Averages
 - Percentile
 - Log Mean
- Diurnal Graphs
- Average Pollution Plots
- Percentage Pollution Concentrations
- Scatter Plots with linear regression
- Frequency Distribution Histograms
- Cumulative Frequency Distribution Plots
- Wind Rose Polar Pollution, Polar Scatter Plots
- List reports



Scatter Plot



Pollution Index



Pollution Rose

Report Specification

Report Name: R&D-Pollution Index Report Format: Pollution Index

Station No.: 6 : R&D WinAQMS Report Type: RPT2

Channel: 1 : Temp Report Heading: Pollution Index at Blackbu

Start Date/Time: 1/02/02 End Date/Time: 15/02/02

Time Format: ddd dd/mm/yy to Averaging Period: 0.01:00

Percentile: 75 Parameter (Average, Max, GM): Average

Breakpoint 1: 34 Breakpoint 6: 0 Minimum Value: 0

Breakpoint 2: 67 Breakpoint 7: 0 Maximum Value: 200

Breakpoint 3: 100 Breakpoint 8: 0 Minimum Data %: 75

Breakpoint 4: 150 Breakpoint 9: 0 Alternative Units:

Breakpoint 5: 0 Breakpoint 10: 0

Stations:

- ☐ 1 : PAC MELBOURNE
- ☐ 2 : Transurban - Grant St.
- ☐ 3 : Transurban - Madden Gr
- ☐ 4 : ACI Glass
- ☐ 5 : Domain Stack - Opsis
- ☒ 6 : R&D WinAQMS

Channels:

- ☐ 11 : WD
- ☐ 12 : Sigma
- ☐ 13 : RTemp
- ☒ CC 1 : PI_SO2
- ☒ CC 2 : PI_NO2
- ☒ CC 3 : PI_CO

Scale: 1. 1. 1.

Produce Report Set Level Markers Set Colours Save Ok Cancel

Set Graph Colours

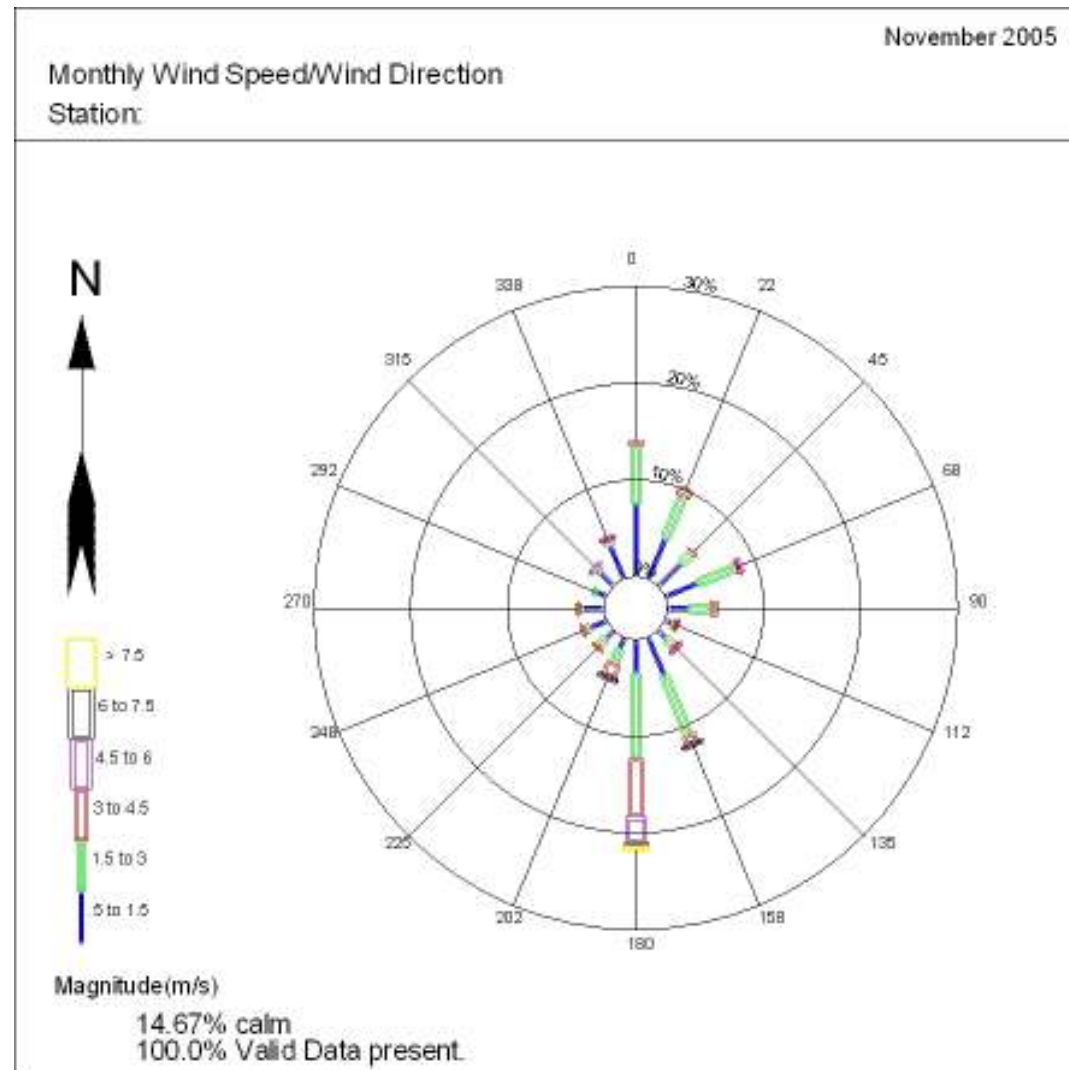
Trace:

- <34 Very Good
- <67 Good
- <100 Fair
- <150 Poor
- >=150 Very Poor

Ok Cancel

Report Specification			
Report Name	Polar Scatter Plot	Report Format	Polar Plot (Scattered)
Station No.	1 : BLACKBURN	Report Type	RPT2
Channel	7 : PM1	Report Heading	This is a Polar Scatter Plo
Start Date/Time	1/12/97	End Date/Time	1/01/98
Time Format		Wind Direction Channel	16 : WD1
Window Start	00:00	Wind Speed Channel	15 : WS1
Window End	24:00	Breakpoint 1	0
Number of Compass Points	24	Breakpoint 2	25
Produce Report		Close	
		Cancel	

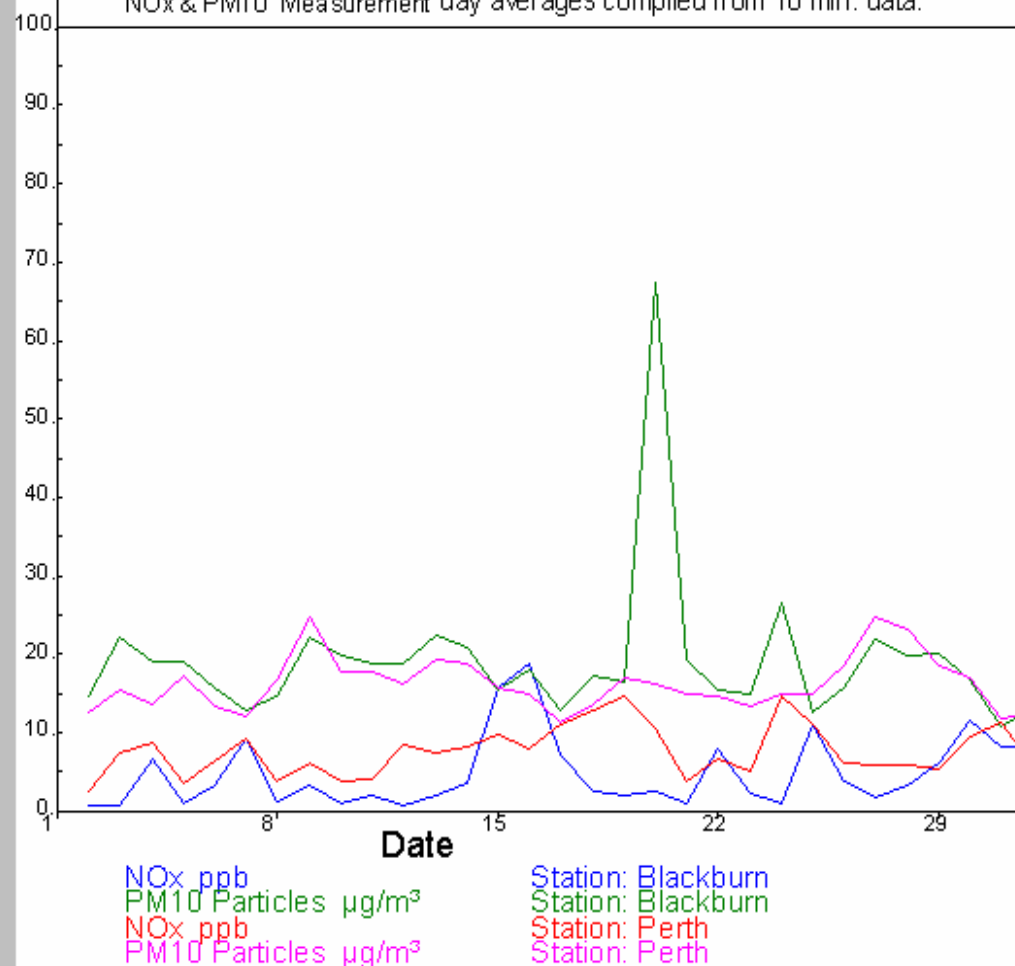
Windrose Graph



Ecotech Demonstration

March 1998

NOx & PM10 Measurement day averages compiled from 10 min. data.



Communication Port Closed



Microsoft PowerPoint



WinCollect - [Produce Report - AAAA test]



13:53

Blackburn Site - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit

Address <http://ecotech.com.au/blackburn/recentmet.html> Go Links »

BLACKBURN

Ambient Air Monitoring Station

Date - Time	Ambient Temperature (°C)	Room Temperature (°C)	Rack Temperature (°C)	Relative Humidity (%)	Room RH (%)	Wind Speed (m/s)	Wind Direction	Sigma Theta
14 Feb 2002 - 11:00	35.3	23.4	29.8	33	44	3.6	NNE	30
14 Feb 2002 - 12:00	37.5	23.8	30.2	30	44	3.3	NNE	34
14 Feb 2002 - 13:00	39.2	24.4	30.7	27	44	2.6	N	39
14 Feb 2002 - 14:00	39.9	25.1	31.4	25	43	1.8	NNW	46
14 Feb 2002 - 15:00	40.4	25.6	32.1	21	42	1.3	NW	45
14 Feb 2002 - 16:00	41.0	26.1	32.5	19	41	1.8	N	42
14 Feb 2002 - 17:00	40.2	26.3	32.8	20	40	1.1	NW	45
14 Feb 2002 - 18:00	38.9	25.9	32.6	23	38	1.4	NNW	35
14 Feb 2002 - 19:00	38.0	25.7	32.5	26	37	1.9	NNE	19
14 Feb 2002 - 20:00	35.2	25.4	32.2	31	38	0.7	NE	14
14 Feb 2002 - 21:00	33.2	24.9	31.8	35	38	1.7	ENE	14
14 Feb 2002 - 22:00	32.6	24.5	31.4	35	39	2.2	ENE	15
14 Feb 2002 - 23:00	31.2	24.1	31.0	38	39	2.2	NE	15
15 Feb 2002 - 00:00	30.2	23.7	30.6	40	39	2.6	NE	13
15 Feb 2002 - 01:00	29.3	23.2	30.2	42	39	3.3	NE	11
15 Feb 2002 - 02:00	28.5	22.8	29.9	44	39	2.1	NE	11
15 Feb 2002 - 03:00	27.9	23.0	29.9	45	42	2.2	NE	12
15 Feb 2002 - 04:00	28.7	23.0	30.1	41	42	3.1	NE	13
15 Feb 2002 - 05:00	29.1	23.1	30.1	39	42	3.7	NE	12
15 Feb 2002 - 06:00	28.8	23.1	30.1	42	41	2.9	NNE	14
15 Feb 2002 - 07:00	29.5	23.3	30.1	43	42	3.5	NE	15
15 Feb 2002 - 08:00	31.6	23.2	30.0	40	42	3.8	NNE	19
15 Feb 2002 - 09:00	33.9	23.0	29.8	38	42	4.6	NNE	25
15 Feb 2002 - 10:00	35.6	23.4	30.0	35	43	4.6	NNE	31

This is not validated data!

[Home](#)

Done Local intranet

List reports easy and quick to design & modify

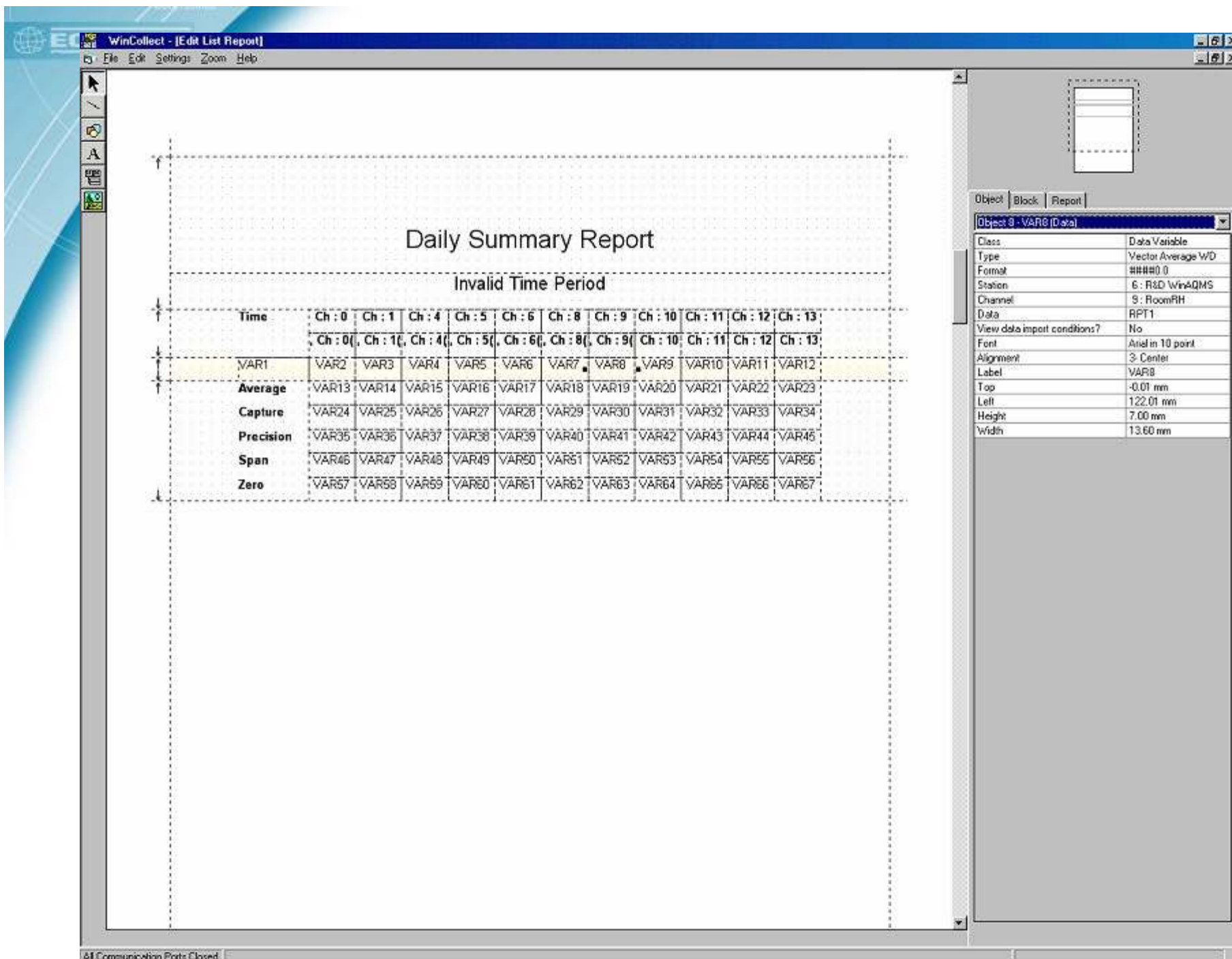
- **List Report Wizard**
 - Helps design first report
 - Step by step directions
- **Easier to move/copy list report components**
- **Grid added improving navigation**

The screenshot shows a dialog box titled "Select the type of result for each channel". It contains a list of channels with checkboxes next to them. The channels are: 0:BP, 1:Temp, 2:RH, 4:NO, 5:NOx, 6:NO2, 8:RoomTP, 9:RoomRH, 10:WS, 11:WD, and 12:Sigma. The "12:Sigma" channel is selected and highlighted. Below the list, there are four checkboxes for the result type: Average (checked), Geometric Mean, Total, and Maximum. At the bottom of the dialog, there are two buttons: "<- Back" and "Next ->".

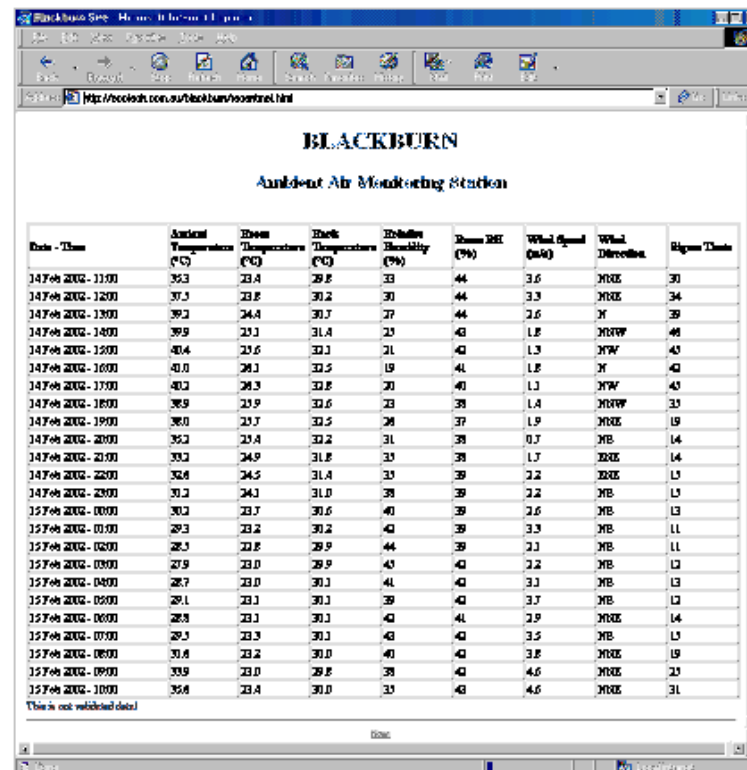
Channel	Selected
0:BP	Yes
1:Temp	Yes
2:RH	Yes
4:NO	Yes
5:NOx	Yes
6:NO2	Yes
8:RoomTP	Yes
9:RoomRH	Yes
10:WS	Yes
11:WD	Yes
12:Sigma	Yes

Result Type:

Result Type	Selected
Average	Yes
Geometric Mean	No
Total	No
Maximum	No



- ♦ Can dump list reports straight to an ASCII file
- ♦ This enables both text files and HTML files to be generated
- ♦ This then enables the HTML file to be automatically transferred to a web site at a pre-set interval
- ♦ “Undo” feature added for list report editor

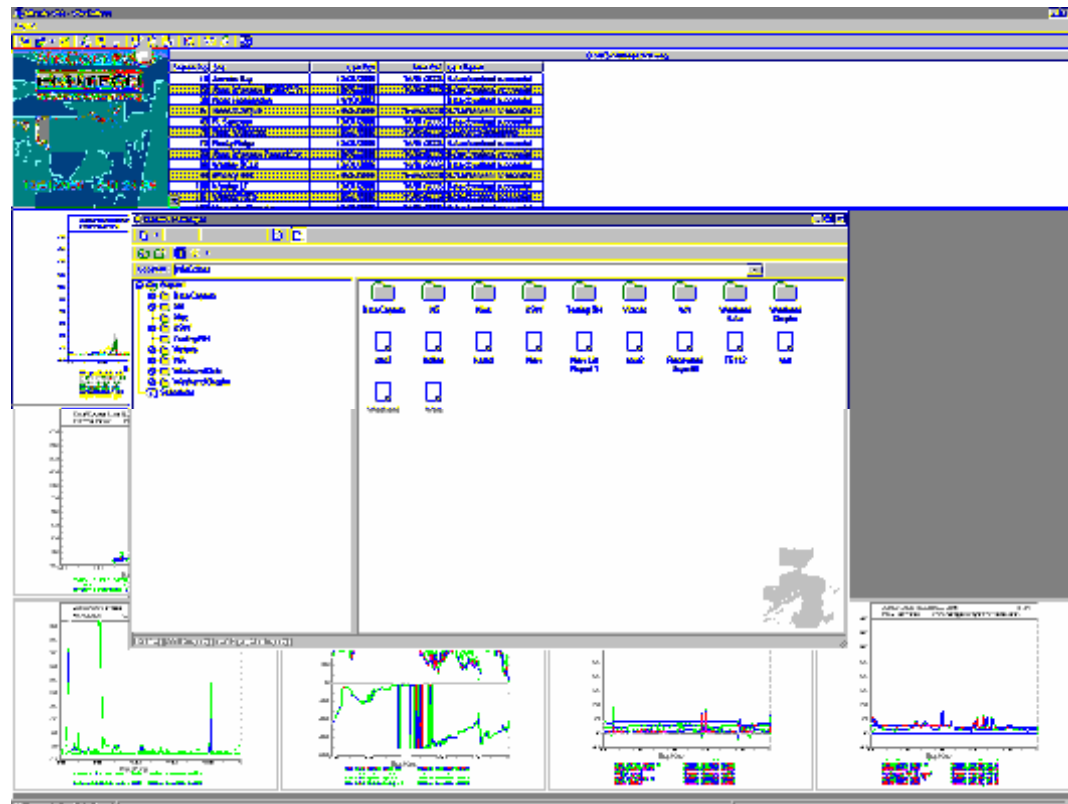


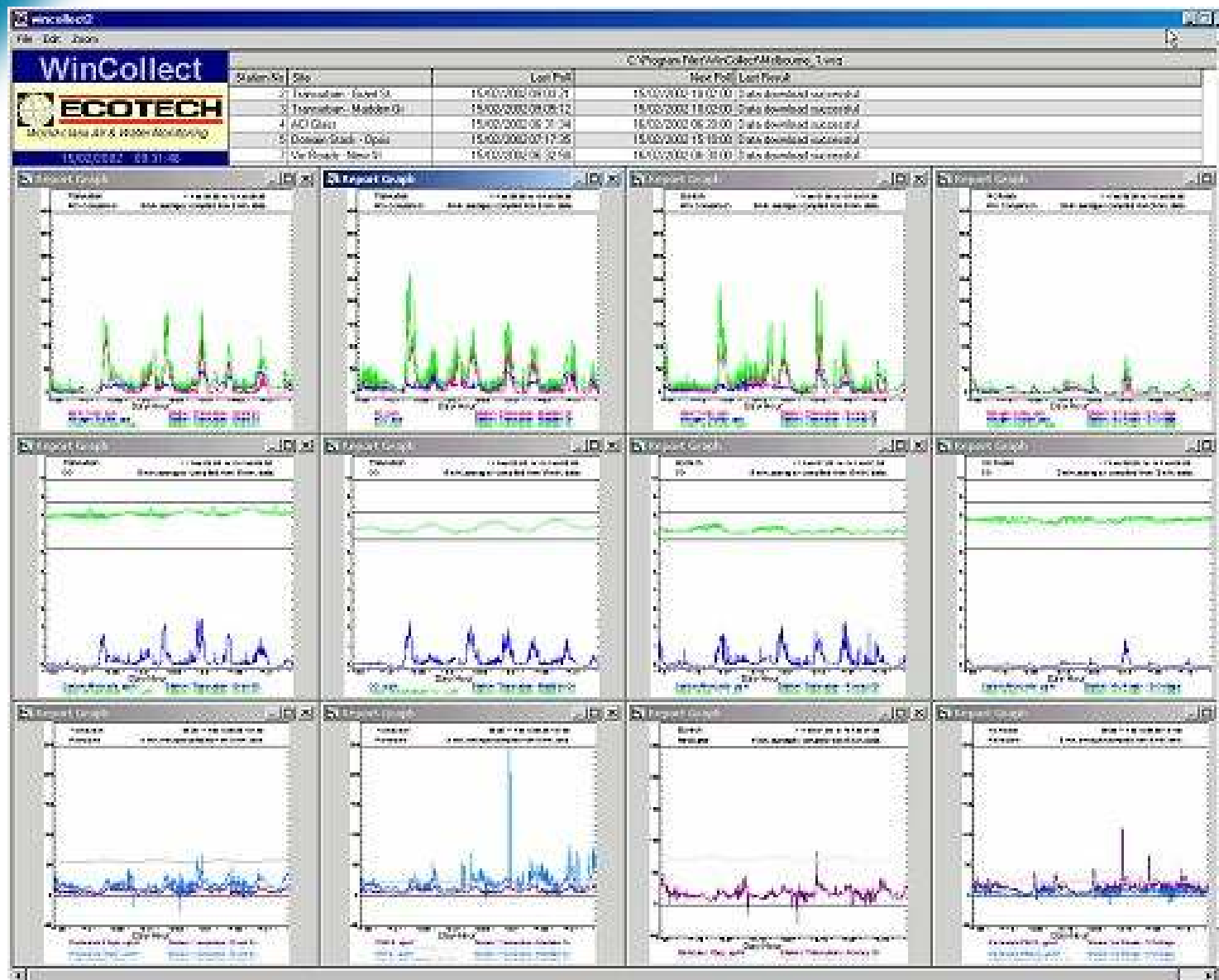
BLACKBURN
Ambient Air Monitoring Station

Date - Time	Ambient Temperature (°C)	Dew Point Temperature (°C)	Wet Bulb Temperature (°C)	Relative Humidity (%)	Rainfall (mm)	Wind Speed (m/s)	Wind Direction	Highest Winds
14 Feb 2002 - 11:00	35.3	23.4	29.8	33	44	3.6	WSE	30
14 Feb 2002 - 12:00	37.3	23.8	30.2	30	44	3.3	WSE	34
14 Feb 2002 - 13:00	39.2	24.4	30.7	27	44	2.6	W	39
14 Feb 2002 - 14:00	39.9	25.1	31.4	25	40	1.8	WSEW	48
14 Feb 2002 - 15:00	40.4	25.6	32.1	21	40	1.3	W	43
14 Feb 2002 - 16:00	41.0	26.1	32.5	19	41	1.8	W	42
14 Feb 2002 - 17:00	40.2	26.3	32.8	20	40	1.1	W	43
14 Feb 2002 - 18:00	38.9	25.9	32.6	23	38	1.4	WSEW	35
14 Feb 2002 - 19:00	38.0	25.7	32.5	28	37	1.9	WSE	19
14 Feb 2002 - 20:00	35.2	25.4	32.2	31	38	0.7	W	14
14 Feb 2002 - 21:00	33.2	24.9	31.8	33	38	1.7	WSE	14
14 Feb 2002 - 22:00	32.6	24.5	31.4	33	39	2.2	WSE	13
14 Feb 2002 - 23:00	31.2	24.1	31.0	38	39	2.2	W	13
15 Feb 2002 - 00:00	30.2	23.7	30.6	40	39	2.6	W	13
15 Feb 2002 - 01:00	29.3	23.2	30.2	42	39	3.3	W	11
15 Feb 2002 - 02:00	28.3	22.8	29.9	44	39	2.1	W	11
15 Feb 2002 - 03:00	27.9	23.0	29.9	43	40	2.2	W	12
15 Feb 2002 - 04:00	28.7	23.0	30.1	41	40	3.1	W	13
15 Feb 2002 - 05:00	29.1	23.1	30.1	39	40	3.7	W	12
15 Feb 2002 - 06:00	28.8	23.1	30.1	42	41	2.9	WSE	14
15 Feb 2002 - 07:00	29.3	23.3	30.1	40	40	3.5	W	13
15 Feb 2002 - 08:00	31.6	23.2	30.0	40	40	3.8	WSE	19
15 Feb 2002 - 09:00	33.9	23.0	29.8	38	40	4.6	WSE	23
15 Feb 2002 - 10:00	35.4	23.4	30.0	33	40	4.6	WSE	31

This is not restricted data

- Can reboot ESC, 9400 and WinAQMS loggers
- Can re-generate “auto-generation” reports on-demand
- Can monitor multiple stations simultaneous on one screen useful when running monitoring network





Ecotech WinAQMS
+
Ecotech WinCollect

= a comprehensive data acquisition, maintenance, validation, and reporting system designed by air monitoring maintenance operators & data validators.